



SEQUENCE LISTING

<110> Ish-Horowicz, David
Henrique , Domingos Manuel Pinto
Lewis, Julian Hart
Artavanis Tsakonas, Spyridon
Gray, Grace

<120> ANTIBODIES TO VERTEBRATE DELTA PROTEINS
AND FRAGMENTS

<130> 7326-122-999

<140> 09/783, 931
<141> 2001-02-15

<150> 08/981, 392
<151> 1997-12-22

<150> PCT/US96/11178
<151> 1996-06-28

<150> 60/000, 589
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Ile Ser Arg Leu Ala Thr Gln Arg His Leu Ala Val Gly Glu Glu Trp	
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 Phe Phe Arg Val Cys Leu Lys His Tyr Gln Ala Ser Val Ser Pro Glu
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 Gly Gln Tyr Cys Thr Glu Pro Ile Cys Leu Pro Gly Cys Asp Glu Gln
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 Pro Leu Gly Tyr Ser Gly Phe Asn Cys Glu Lys Lys Ile Asp Tyr Cys
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 Ser Tyr Ile Cys Gln Cys Gln Ala Gly Phe Thr Gly Arg His Cys Asp
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 Asp Asn Val Asp Asp Cys Ala Ser Phe Pro Cys Val Asn Gly Gly Thr
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 Cys Gln Asp Gly Val Asn Asp Tyr Ser Cys Thr Cys Pro Pro Gly Tyr
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 ccagcgc当地 aaggacgtt ctgttagcat cattgggct acccagatca agaacaccaa 1860
 caagaaggcg gacttcacg gggaccatgg agccaagaag agcagctta aggtccgata 1920
 ccccactgtg gactataacc tcgttcgaga cctcaaggga gatgaagcca cggtcaggga 1980
 tacacacagc aaacgtgaca ccaagtgc当地 gtcacagagc tctgcaggag aagagaagat 2040
 cgc当地 ctaagggtg gggagatcc tgacagaaaa aggccagagt ctgtctactc 2100
 tacttcaaag gacaccaagt accagtc当地 gtatgttctg tctgcagaaa aggatgagtg 2160
 ttttatagcg actgagctgt aagatggaaag cgatgtggca aaattcccat ttctctcaaa 2220
 taaaattcca aggatatacg cccgatgaat gctgctgaga gaggaaggga gaggaaaccc 2280
 agggactgct gctgagaacc aggttc当地 ggaaagctggtt ctctcagagt tagcagaggc 2340
 gccc当地 gacact gccagcctag gcttggctg cc当地 ctggact gc当地 ctgggtg tggccatt 2400
 gcaactatgga cagttgctt gaagagtata tatttaatg gacgagtgac ttgattcata 2460
 tacgaagcac gc当地 ctgc当地 cacgtctatc ttggattact atgagccagt ctttc当地 ttga 2520
 actagaaaca caactgc当地 tattgtc当地 tttgatactg agatgtgtt tttttttcc 2580
 tagacgggaa aaagaaaacg tttgttattt ttttggatt tgtaaaaata ttttcatga 2640
 tatctgtaaa gcttgagttat ttgtgacgt tc当地 ttttataataaatttataa ttttggtaaa 2700
 tatgtacaaa ggcacttc当地 gtctatgtga ctatatttt ttgtatataa atgtattttat 2760
 ggaatattgt gcaaatgtta tttgagttt ttactgtttt gttaatgaag aaattcattt 2820
 taaaatattt ttccaaaat aaatataatg aactaca 2857

<210> 5
 <211> 721
 <212> PRT
 <213> Xenopus

<400> 5
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 1 5 10 15
 Cys Gln Ile Ser Cys Ser Gly Leu Phe Glu Leu Arg Leu Gln Glu Phe
 20 25 30
 Val Asn Lys Lys Gly Leu Leu Gly Asn Met Asn Cys Cys Arg Pro Gly
 35 40 45
 Ser Leu Ala Ser Leu Gln Arg Cys Glu Cys Lys Thr Phe Phe Arg Ile
 50 55 60
 Cys Leu Lys His Tyr Gln Ser Asn Val Ser Pro Glu Pro Pro Cys Thr
 65 70 75 80
 Tyr Gly Gly Ala Val Thr Pro Val Leu Gly Thr Asn Ser Phe Val Val
 85 90 95
 Pro Glu Ser Ser Asn Ala Asp Pro Thr Phe Ser Asn Pro Ile Arg Phe
 100 105 110
 Pro Phe Gly Phe Thr Trp Pro Gly Thr Phe Ser Leu Ile Ile Glu Ala
 115 120 125
 Ile His Ala Asp Ser Ala Asp Asp Leu Asn Thr Glu Asn Pro Glu Arg
 130 135 140
 Leu Ile Ser Arg Leu Ala Thr Gln Arg His Leu Thr Val Gly Glu Gln
 145 150 155 160
 Trp Ser Gln Asp Leu His Ser Ser Asp Arg Thr Glu Leu Lys Tyr Ser
 165 170 175
 Tyr Arg Phe Val Cys Asp Glu Tyr Tyr Gly Glu Gly Cys Ser Asp
 180 185 190
 Tyr Cys Arg Pro Arg Asp Asp Ala Phe Gly His Phe Ser Cys Gly Glu
 195 200 205
 Lys Gly Glu Lys Leu Cys Asn Pro Gly Trp Lys Gly Leu Tyr Cys Thr
 210 215 220
 Glu Pro Ile Cys Leu Pro Gly Cys Asp Glu His His Gly Tyr Cys Asp
 225 230 235 240
 Lys Pro Gly Glu Cys Lys Cys Arg Val Gly Trp Gln Gly Arg Tyr Cys

245	250	255
Asp Glu Cys Ile Arg Tyr Pro Gly Cys	Leu His Gly Thr Cys Gln Gln	
260	265	270
Pro Trp Gln Cys Asn Cys Gln Glu	Gly Trp Gly Gly	Leu Phe Cys Asn
275	280	285
Gln Asp Leu Asn Tyr Cys Thr His His Lys	Pro Cys Glu Asn Gly Ala	
290	295	300
Thr Cys Thr Asn Thr Gly Gln Gly Ser Tyr	Thr Cys Ser Cys Arg Pro	
305	310	320
Gly Tyr Thr Gly Ser Asn Cys Glu Ile	Glu Val Asn Glu Cys Asp Ala	
325	330	335
Asn Pro Cys Lys Asn Gly Gly Ser Cys Ser Asp	Leu Glu Asn Ser Tyr	
340	345	350
Thr Cys Ser Cys Pro Pro Gly Phe Tyr Gly Lys	Asn Cys Glu Leu Ser	
355	360	365
Ala Met Thr Cys Ala Asp Gly Pro Cys Phe Asn	Gly Gly Arg Cys Ala	
370	375	380
Asp Asn Pro Asp Gly Gly Tyr Ile Cys Phe	Cys Pro Val Gly Tyr Ser	
385	390	400
Gly Phe Asn Cys Glu Lys Lys Ile Asp Tyr	Cys Ser Ser Asn Pro Cys	
405	410	415
Ala Asn Gly Ala Arg Cys Glu Asp Leu Gly Asn	Ser Tyr Ile Cys Gln	
420	425	430
Cys Gln Glu Gly Phe Ser Gly Arg Asn Cys Asp	Asp Asn Leu Asp Asp	
435	440	445
Cys Thr Ser Phe Pro Cys Gln Asn Gly Gly	Thr Cys Gln Asp Gly Ile	
450	455	460
Asn Asp Tyr Ser Cys Thr Cys Pro Pro Gly	Tyr Ile Gly Lys Asn Cys	
465	470	480
Ser Met Pro Ile Thr Lys Cys Glu His Asn	Pro Cys His Asn Gly Ala	
485	490	495
Thr Cys His Glu Arg Asn Asn Arg Tyr Val	Cys Gln Cys Ala Arg Gly	
500	505	510
Tyr Gly Gly Asn Asn Cys Gln Phe Leu Leu	Pro Glu Glu Lys Pro Val	
515	520	525
Val Val Asp Leu Thr Glu Lys Tyr Thr Glu	Gly Gln Ser Gly Gln Phe	
530	535	540
Pro Trp Ile Ala Val Cys Ala Gly Ile Val	Leu Val Leu Met Leu	
545	550	560
Leu Gly Cys Ala Ala Val Val Val Cys Val	Arg Val Arg Val Gln Lys	
565	570	575
Arg Arg His Gln Pro Glu Ala Cys Arg Gly	Glu Ser Thr Met Asn	
580	585	590
Asn Leu Ala Asn Cys Gln Arg Glu Lys Asp	Ile Ser Val Ser Phe Ile	
595	600	605
Gly Thr Thr Gln Ile Lys Asn Thr Asn Lys	Lys Ile Asp Phe Leu Ser	
610	615	620
Glu Ser Asn Asn Glu Lys Asn Gly Tyr Lys	Pro Arg Tyr Pro Ser Val	
625	630	640
Asp Tyr Asn Leu Val His Glu Leu Lys Asn	Glu Asp Ser Pro Lys Glu	
645	650	655
Glu Arg Ser Lys Cys Glu Ala Lys Cys Ser	Ser Asn Asp Ser Asp Ser	
660	665	670
Glu Asp Val Asn Ser Val His Ser Lys Arg	Asp Ser Ser Glu Arg Arg	
675	680	685
Arg Pro Asp Ser Ala Tyr Ser Thr Ser Lys	Asp Thr Lys Tyr Gln Ser	
690	695	700
Val Tyr Val Ile Ser Asp Glu Lys Asp Glu	Cys Ile Ile Ala Thr Glu	
705	710	715
Val		720

<210> 6
 <211> 832
 <212> PRT
 <213> Drosophila

<400> 6
 Met His Trp Ile Lys Cys Leu Leu Thr Ala Phe Ile Cys Phe Thr Val
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 Ile Val Gln Val His Ser Ser Gly Ser Phe Glu Leu Arg Leu Lys Tyr
 20 25 30
 Phe Ser Asn Asp His Gly Arg Asp Asn Glu Gly Arg Cys Cys Ser Gly
 35 40 45
 Glu Ser Asp Gly Ala Thr Gly Lys Cys Leu Gly Ser Cys Lys Thr Arg
 50 55 60
 Phe Arg Leu Cys Leu Lys His Tyr Gln Ala Thr Ile Asp Thr Thr Ser
 65 70 75 80
 Gln Cys Thr Tyr Gly Asp Val Ile Thr Pro Ile Leu Gly Glu Asn Ser
 85 90 95
 Val Asn Leu Thr Asp Ala Gln Arg Phe Gln Asn Lys Gly Phe Thr Asn
 100 105 110
 Pro Ile Gln Phe Pro Phe Ser Phe Ser Trp Pro Gly Thr Phe Ser Leu
 115 120 125
 Ile Val Glu Ala Trp His Asp Thr Asn Asn Ser Gly Asn Ala Arg Thr
 130 135 140
 Asn Lys Leu Leu Ile Gln Arg Leu Leu Val Gln Gln Val Leu Glu Val
 145 150 155 160
 Ser Ser Glu Trp Lys Thr Asn Lys Ser Glu Ser Gln Tyr Thr Ser Leu
 165 170 175
 Glu Tyr Asp Phe Arg Val Thr Cys Asp Leu Asn Tyr Tyr Gly Ser Gly
 180 185 190
 Cys Ala Lys Phe Cys Arg Pro Arg Asp Asp Ser Phe Gly His Ser Thr
 195 200 205
 Cys Ser Glu Thr Gly Glu Ile Ile Cys Leu Thr Gly Trp Gln Gly Asp
 210 215 220
 Tyr Cys His Ile Pro Lys Cys Ala Lys Gly Cys Glu His Gly His Cys
 225 230 235 240
 Asp Lys Pro Asn Gln Cys Val Cys Gln Leu Gly Trp Lys Gly Ala Leu
 245 250 255
 Cys Asn Glu Cys Val Leu Glu Pro Asn Cys Ile His Gly Thr Cys Asn
 260 265 270
 Lys Pro Trp Thr Cys Ile Cys Asn Glu Gly Trp Gly Gly Leu Tyr Cys
 275 280 285
 Asn Gln Asp Leu Asn Tyr Cys Thr Asn His Arg Pro Cys Lys Asn Gly
 290 295 300
 Gly Thr Cys Phe Asn Thr Gly Glu Gly Leu Tyr Thr Cys Lys Cys Ala
 305 310 315 320
 Pro Gly Tyr Ser Gly Asp Asp Cys Glu Asn Glu Ile Tyr Ser Cys Asp
 325 330 335
 Ala Asp Val Asn Pro Cys Gln Asn Gly Gly Thr Cys Ile Asp Glu Pro
 340 345 350
 His Thr Lys Thr Gly Tyr Lys Cys His Cys Arg Asn Gly Trp Ser Gly
 355 360 365
 Lys Met Cys Glu Glu Lys Val Leu Thr Cys Ser Asp Lys Pro Cys His
 370 375 380
 Gln Gly Ile Cys Arg Asn Val Arg Pro Gly Leu Gly Ser Lys Gly Gln
 385 390 395 400
 Gly Tyr Gln Cys Glu Cys Pro Ile Gly Tyr Ser Gly Pro Asn Cys Asp
 405 410 415
 Leu Gln Leu Asp Asn Cys Ser Pro Asn Pro Cys Ile Asn Gly Gly Ser

	420	425	430
Cys Gln Pro Ser Gly Lys Cys Ile Cys Pro Ser Gly Phe Ser Gly Thr			
435	440	445	
Arg Cys Glu Thr Asn Ile Asp Asp Cys Leu Gly His Gln Cys Glu Asn			
450	455	460	
Gly Gly Thr Cys Ile Asp Met Val Asn Gln Tyr Arg Cys Gln Cys Val			
465	470	475	480
Pro Gly Phe His Gly Thr His Cys Ser Ser Lys Val Asp Leu Cys Leu			
485	490	495	
Ile Arg Pro Cys Ala Asn Gly Gly Thr Cys Leu Asn Leu Asn Asn Asp			
500	505	510	
Tyr Gln Cys Thr Cys Arg Ala Gly Phe Thr Gly Lys Asp Cys Ser Val			
515	520	525	
Asp Ile Asp Glu Cys Ser Ser Gly Pro Cys His Asn Gly Gly Thr Cys			
530	535	540	
Met Asn Arg Val Asn Ser Phe Glu Cys Val Cys Ala Asn Gly Phe Arg			
545	550	555	560
Gly Lys Gln Cys Asp Glu Glu Ser Tyr Asp Ser Val Thr Phe Asp Ala			
565	570	575	
His Gln Tyr Gly Ala Thr Thr Gln Ala Arg Ala Asp Gly Leu Ala Asn			
580	585	590	
Ala Gln Val Val Leu Ile Ala Val Phe Ser Val Ala Met Pro Leu Val			
595	600	605	
Ala Val Ile Ala Ala Cys Val Val Phe Cys Met Lys Arg Lys Arg Lys			
610	615	620	
Arg Ala Gln Glu Lys Asp Asn Ala Glu Ala Arg Lys Gln Asn Glu Gln			
625	630	635	640
Asn Ala Val Ala Thr Met His His Asn Gly Ser Ala Val Gly Val Ala			
645	650	655	
Leu Ala Ser Ala Ser Met Gly Gly Lys Thr Gly Ser Asn Ser Gly Leu			
660	665	670	
Thr Phe Asp Gly Gly Asn Pro Asn Ile Ile Lys Asn Thr Trp Asp Lys			
675	680	685	
Ser Val Asn Asn Ile Cys Ala Ser Ala Ala Ala Ala Ala Ala Ala			
690	695	700	
Ala Ala Ala Asp Glu Cys Leu Met Tyr Gly Gly Tyr Val Ala Ser Val			
705	710	715	720
Ala Asp Asn Asn Ala Asn Ser Asp Phe Cys Val Ala Pro Leu Gln			
725	730	735	
Arg Ala Lys Ser Gln Lys Gln Leu Asn Thr Asp Pro Thr Leu Met His			
740	745	750	
Arg Gly Ser Pro Ala Gly Thr Ser Ala Lys Gly Ala Ser Gly Gly Gly			
755	760	765	
Pro Gly Ala Ala Glu Gly Lys Arg Ile Ser Val Leu Gly Glu Gly Ser			
770	775	780	
Tyr Cys Ser Gln Arg Trp Pro Ser Leu Ala Ala Gly Val Ala Gly			
785	790	795	800
Asp Leu Phe Ile Gln Leu Met Ala Ala Ser Val Ala Gly Thr Asp			
805	810	815	
Gly Thr Ala Gln Gln Gln Arg Ser Val Val Cys Gly Thr Pro His Met			
820	825	830	

<210> 7
<211> 46
<212> PRT
<213> Drosophila

<400> 7
Val Gln Cys Ala Val Thr Tyr Tyr Asn Thr Thr Phe Cys Thr Thr Phe
1 5 10 15

Cys Arg Pro Arg Asp Asp Gln Phe Gly His Tyr Ala Cys Gly Ser Glu
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Gly Gln Lys Leu Cys Leu Asn Gly Trp Gln Gly Val Asn Cys
35 40 45

<210> 8
<211> 45
<212> PRT
<213> Gallus gallus

<400> 8
Val Thr Cys Ala Glu His Tyr Tyr Gly Phe Gly Cys Asn Lys Phe Cys
1 5 10 15
Arg Pro Arg Asp Asp Phe Phe Thr His His Thr Cys Asp Gln Asn Gly
20 25 30
Asn Lys Thr Cys Leu Glu Gly Trp Thr Gly Pro Glu Cys
35 40 45

<210> 9
<211> 43
<212> PRT
<213> Drosophila

<400> 9
Asn Leu Cys Ser Ser Asn Tyr His Gly Lys Arg Cys Asn Arg Tyr Cys
1 5 10 15
Ile Ala Asn Ala Lys Leu His Trp Glu Cys Ser Thr His Gly Val Arg
20 25 30
Arg Cys Ser Ala Gly Trp Ser Gly Glu Asp Cys
35 40

<210> 10
<211> 45
<212> PRT
<213> Drosophila

<400> 10
Val Thr Cys Ala Arg Asn Tyr Phe Gly Asn Arg Cys Glu Asn Phe Cys
1 5 10 15
Asp Ala His Leu Ala Lys Ala Ala Arg Lys Arg Cys Asp Ala Met Gly
20 25 30
Arg Leu Arg Cys Asp Ile Gly Trp Met Gly Pro His Cys
35 40 45

<210> 11
<211> 2692
<212> DNA
<213> mouse

<220>
<221> CDS
<222> (31)...(2199)
<223> Mouse Delta (M-Delta-1) gene

<400> 11
ctgcaggaat tcsmycgcat gctcccggcc gcc atg ggc cgt cgg agc gcg cta 54
Ala Met Gly Arg Arg Ser Ala Leu

gcc ctt gcc gtg gtc tct gcc ctg ctg tgc cag gtc tgg agc tcc ggc	102
Ala Leu Ala Val Val Ser Ala Leu Leu Cys Gln Val Trp Ser Ser Gly	
10 15 20	
gta ttt gag ctg aag ctg cag gag ttc gtc aac aag aag ggg ctg ctg	150
Val Phe Glu Leu Lys Leu Gln Glu Phe Val Asn Lys Lys Gly Leu Leu	
25 30 35 40	
ggg aac cgc aac tgc tgc cgc ggg ggc tct ggc ccg cct tgc gcc tgc	198
Gly Asn Arg Asn Cys Cys Arg Gly Ser Gly Pro Pro Cys Ala Cys	
45 50 55	
agg acc ttc ttt cgc gta tgc ctc aag cac tac cag gcc agc gtg tca	246
Arg Thr Phe Phe Arg Val Cys Leu Lys His Tyr Gln Ala Ser Val Ser	
60 65 70	
ccg gag cca ccc tgc acc tac ggc agt gcc gtc acg cca gtg ctg ggt	294
Pro Glu Pro Pro Cys Thr Tyr Gly Ser Ala Val Thr Pro Val Leu Gly	
75 80 85	
gtc gac tcc ttc agc ctg cct gat ggc gca ggc atc gac ccc gcc ttc	342
Val Asp Ser Phe Ser Leu Pro Asp Gly Ala Gly Ile Asp Pro Ala Phe	
90 95 100	
agc aac ccc atc cga ttc ccc ttc ggc ttc acc tgg cca ggt acc ttc	390
Ser Asn Pro Ile Arg Phe Pro Phe Gly Phe Thr Trp Pro Gly Thr Phe	
105 110 115 120	
tct ctg atc att gaa gcc ctc cat aca gac tct ccc gat gac ctc gca	438
Ser Leu Ile Ile Glu Ala Leu His Thr Asp Ser Pro Asp Asp Leu Ala	
125 130 135	
aca gaa aac cca gaa aga ctc atc agc cgc ctg acc aca cag agg cac	486
Thr Glu Asn Pro Glu Arg Leu Ile Ser Arg Leu Thr Thr Gln Arg His	
140 145 150	
ctc act gtg gga gaa tgg tct cag gac ctt cac agt agc ggc cgc	534
Leu Thr Val Gly Glu Glu Trp Ser Gln Asp Leu His Ser Ser Gly Arg	
155 160 165	
aca gac ctc cgg tac tct tac cgg ttt gtg tgt gac gag cac tac tac	582
Thr Asp Leu Arg Tyr Ser Tyr Arg Phe Val Cys Asp Glu His Tyr Tyr	
170 175 180	
gga gaa ggt tgc tct gtg ttc tgc cga cct cgg gat gac gcc ttt ggc	630
Gly Glu Gly Cys Ser Val Phe Cys Arg Pro Arg Asp Asp Ala Phe Gly	
185 190 195 200	
cac ttc acc tgc ggg gac aga ggg gag aag atg tgc gac cct ggc tgg	678
His Phe Thr Cys Gly Asp Arg Gly Glu Lys Met Cys Asp Pro Gly Trp	
205 210 215	
aaa ggc cag tac tgc act gac cca atc tgt ctg cca ggg tgt gat gac	726
Lys Gly Gln Tyr Cys Thr Asp Pro Ile Cys Leu Pro Gly Cys Asp Asp	
220 225 230	
caa cat gga tac tgt gac aaa cca ggg gag tgc aag tgc aga gtt ggc	774
Gln His Gly Tyr Cys Asp Lys Pro Gly Glu Cys Lys Cys Arg Val Gly	
235 240 245	

tgg cag ggc cgc tac tgc gat gag tgc atc cga tac cca ggt tgt gtc		822	
Trp Gln Gly Arg Tyr Cys Asp Glu Cys Ile Arg Tyr Pro Gly Cys Val			
250	255	260	
cat ggc acc tgc cag caa ccc tgg cag tgt aac tgc cag gaa ggc tgg		870	
His Gly Thr Cys Gln Gln Pro Trp Gln Cys Asn Cys Gln Glu Gly Trp			
265	270	275	280
ggg ggc ctt ttc tgc aac caa gac ctg aac tac tgt act cac cat aag		918	
Gly Gly Leu Phe Cys Asn Gln Asp Leu Asn Tyr Cys Thr His His Lys			
285	290	295	
ccg tgc agg aat gga gcc acc tgc acc aac acg ggc cag ggg agc tac		966	
Pro Cys Arg Asn Gly Ala Thr Cys Thr Asn Thr Gly Gln Gly Ser Tyr			
300	305	310	
aca tgt tcc tgc cga cct ggg tat aca ggt gcc aac tgt gag ctg gaa		1014	
Thr Cys Ser Cys Arg Pro Gly Tyr Thr Gly Ala Asn Cys Glu Leu Glu			
315	320	325	
gta gat gag tgt gct cct agc ccc tgc aag aac gga gcg agc tgc acg		1062	
Val Asp Glu Cys Ala Pro Ser Pro Cys Lys Asn Gly Ala Ser Cys Thr			
330	335	340	
gac ctt gag gac agc ttc tct tgc acc tgc cct ccc ggc ttc tat ggc		1110	
Asp Leu Glu Asp Ser Phe Ser Cys Thr Cys Pro Pro Gly Phe Tyr Gly			
345	350	355	360
aag gtc tgt gag ctg agc gcc atg acc tgt gca gat ggc cct tgc ttc		1158	
Lys Val Cys Glu Leu Ser Ala Met Thr Cys Ala Asp Gly Pro Cys Phe			
365	370	375	
aat gga gga cga tgt tca gat aac cct gac gga ggc tac acc tgc cat		1206	
Asn Gly Arg Cys Ser Asp Asn Pro Asp Gly Gly Tyr Thr Cys His			
380	385	390	
tgc ccc ttg ggc ttc tct ggc ttc aac tgt gag aag aag atg gat ctc		1254	
Cys Pro Leu Gly Phe Ser Gly Phe Asn Cys Glu Lys Lys Met Asp Leu			
395	400	405	
tgc ggc tct tcc cct tgt tct aac ggt gcc aag tgt gtg gac ctc ggc		1302	
Cys Gly Ser Ser Pro Cys Ser Asn Gly Ala Lys Cys Val Asp Leu Gly			
410	415	420	
aac tct tac ctg tgc cgg tgc cag gct ggc ttc tcc ggg agg tac tgc		1350	
Asn Ser Tyr Leu Cys Arg Cys Gln Ala Gly Phe Ser Gly Arg Tyr Cys			
425	430	435	440
gag gac aat gtg gat gac tgt gcc tcc tcc ccg tgt gca aat ggg ggc		1398	
Glu Asp Asn Val Asp Asp Cys Ala Ser Ser Pro Cys Ala Asn Gly Gly			
445	450	455	
acc tgc cgg gac agt gtg aac gac ttc tcc tgt acc tgc cca cct ggc		1446	
Thr Cys Arg Asp Ser Val Asn Asp Phe Ser Cys Thr Cys Pro Pro Gly			
460	465	470	
tac acg ggc aag aac tgc agc gcc cct gtc agc agg tgt gag cat gca		1494	
Tyr Thr Gly Lys Asn Cys Ser Ala Pro Val Ser Arg Cys Glu His Ala			
475	480	485	

ccc tgc cat aat ggg gcc acc tgc cac cag agg ggc cag cgc tac atg Pro Cys His Asn Gly Ala Thr Cys His Gln Arg Gly Gln Arg Tyr Met	1542
490 495 500	
tgt gag tgc gcc cag ggc tat ggc ggc ccc aac tgc cag ttt ctg ctc Cys Glu Cys Ala Gln Gly Tyr Gly Pro Asn Cys Gln Phe Leu Leu	1590
505 510 515 520	
cct gag cca cca cca ggg ccc atg gtg gac ctc agt gag agg cat Pro Glu Pro Pro Gly Pro Met Val Val Asp Leu Ser Glu Arg His	1638
525 530 535	
atg gag agc cag ggc ggg ccc ttc ccc tgg gtg gcc gtg tgt gcc ggg Met Glu Ser Gln Gly Gly Pro Phe Pro Trp Val Ala Val Cys Ala Gly	1686
540 545 550	
gtg gtg ctt gtc ctc ctg ctg ctg ggc tgt gct gct gtg gtg gtc Val Val Leu Val Leu Leu Leu Leu Gly Cys Ala Ala Val Val Val	1734
555 560 565	
tgc gtc cgg ctg aag cta cag aaa cac cag cct cca cct gaa ccc tgt Cys Val Arg Leu Lys Leu Gln Lys His Gln Pro Pro Pro Glu Pro Cys	1782
570 575 580	
ggg gga gag aca gaa acc atg aac aac cta gcc aat tgc cag cgc gag Gly Gly Glu Thr Glu Thr Met Asn Asn Leu Ala Asn Cys Gln Arg Glu	1830
585 590 595 600	
aag gac gtt tct gtt agc atc att ggg gct acc cag atc aag aac acc Lys Asp Val Ser Val Ser Ile Ile Gly Ala Thr Gln Ile Lys Asn Thr	1878
605 610 615	
aac aag aag gcg gac ttt cac ggg gac cat gga gcc gag aag agc agc Asn Lys Lys Ala Asp Phe His Gly Asp His Gly Ala Glu Lys Ser Ser	1926
620 625 630	
ttt aag gtc cga tac ccc act gtg gac tat aac ctc gtt cga gac ctc Phe Lys Val Arg Tyr Pro Thr Val Asp Tyr Asn Leu Val Arg Asp Leu	1974
635 640 645	
aag gga gat gaa gcc acg gtc agg gat aca cac agc aaa cgt gac acc Lys Gly Asp Glu Ala Thr Val Arg Asp Thr His Ser Lys Arg Asp Thr	2022
650 655 660	
aag tgc cag tca cag agt ctg cag gag aag aga aga tcg ccc caa cac Lys Cys Gln Ser Gln Ser Leu Gln Glu Lys Arg Arg Ser Pro Gln His	2070
665 670 675 680	
tta ggg gtg ggg aga ttc ctg aca gaa aac agg cca gag tct gtc tac Leu Gly Val Gly Arg Phe Leu Thr Glu Asn Arg Pro Glu Ser Val Tyr	2118
685 690 695	
tct act tca aag gac acc aag tac cag tcg gtg tat gtt ctg tct gca Ser Thr Ser Lys Asp Thr Lys Tyr Gln Ser Val Tyr Val Leu Ser Ala	2166
700 705 710	
gaa aag gat gag tgt gtt ata gcg act gag gtg taagatggaa gcgatgtggc 2219 Glu Lys Asp Glu Cys Val Ile Ala Thr Glu Val	
715 720	
aaaattccca tttctcttaa ataaaattcc aaggatata gccccatgaa tgctgctgag 2279	

agaggaaggg agaggaaacc cagggactgc tgctgagaac caggttcagg cgaacgttgt 2339
 tctctcagag ttagcagagg cgcccgacac tgcagccta ggcttggct gcccgtggac 2399
 tgcctgctgg ttgttccat tgcactatgg acagttgctt tgaagagtat atatttaaat 2459
 ggacgagtga ctgttcat ataggaagca cgcactgccc acacgtctat cttggattac 2519
 tatgagccag tcttcctt aactagaaaacaactgcct ttattgtcct ttttgatact 2579
 gagatgtgtt tttttttt cctagacggg aaaaagaaaa cgtgtgttat ttttttggg 2639
 atttgtaaaa atattttca tgattatggg agagctccca acgcgttgg a ggt 2692

<210> 12
 <211> 722
 <212> PRT
 <213> mouse

<400> 12
 Met Gly Arg Arg Ser Ala Leu Ala Leu Ala Val Val Ser Ala Leu Leu
 1 5 10 15
 Cys Gln Val Trp Ser Ser Gly Val Phe Glu Leu Lys Leu Gln Glu Phe
 20 25 30
 Val Asn Lys Lys Gly Leu Leu Gly Asn Arg Asn Cys Cys Arg Gly Gly
 35 40 45
 Ser Gly Pro Pro Cys Ala Cys Arg Thr Phe Phe Arg Val Cys Leu Lys
 50 55 60
 His Tyr Gln Ala Ser Val Ser Pro Glu Pro Pro Cys Thr Tyr Gly Ser
 65 70 75 80
 Ala Val Thr Pro Val Leu Gly Val Asp Ser Phe Ser Leu Pro Asp Gly
 85 90 95
 Ala Gly Ile Asp Pro Ala Phe Ser Asn Pro Ile Arg Phe Pro Phe Gly
 100 105 110
 Phe Thr Trp Pro Gly Thr Phe Ser Leu Ile Ile Glu Ala Leu His Thr
 115 120 125
 Asp Ser Pro Asp Asp Leu Ala Thr Glu Asn Pro Glu Arg Leu Ile Ser
 130 135 140
 Arg Leu Thr Thr Gln Arg His Leu Thr Val Gly Glu Glu Trp Ser Gln
 145 150 155 160
 Asp Leu His Ser Ser Gly Arg Thr Asp Leu Arg Tyr Ser Tyr Arg Phe
 165 170 175
 Val Cys Asp Glu His Tyr Tyr Gly Glu Gly Cys Ser Val Phe Cys Arg
 180 185 190
 Pro Arg Asp Asp Ala Phe Gly His Phe Thr Cys Gly Asp Arg Gly Glu
 195 200 205
 Lys Met Cys Asp Pro Gly Trp Lys Gly Gln Tyr Cys Thr Asp Pro Ile
 210 215 220
 Cys Leu Pro Gly Cys Asp Asp Gln His Gly Tyr Cys Asp Lys Pro Gly
 225 230 235 240
 Glu Cys Lys Cys Arg Val Gly Trp Gln Gly Arg Tyr Cys Asp Glu Cys
 245 250 255
 Ile Arg Tyr Pro Gly Cys Val His Gly Thr Cys Gln Gln Pro Trp Gln
 260 265 270
 Cys Asn Cys Gln Glu Gly Trp Gly Gly Leu Phe Cys Asn Gln Asp Leu
 275 280 285
 Asn Tyr Cys Thr His His Lys Pro Cys Arg Asn Gly Ala Thr Cys Thr
 290 295 300
 Asn Thr Gly Gln Gly Ser Tyr Thr Cys Ser Cys Arg Pro Gly Tyr Thr
 305 310 315 320
 Gly Ala Asn Cys Glu Leu Glu Val Asp Glu Cys Ala Pro Ser Pro Cys
 325 330 335
 Lys Asn Gly Ala Ser Cys Thr Asp Leu Glu Asp Ser Phe Ser Cys Thr
 340 345 350
 Cys Pro Pro Gly Phe Tyr Gly Lys Val Cys Glu Leu Ser Ala Met Thr
 355 360 365
 Cys Ala Asp Gly Pro Cys Phe Asn Gly Gly Arg Cys Ser Asp Asn Pro

370	375	380
Asp	Gly	Gly Tyr Thr Cys His Cys Pro Leu Gly Phe Ser Gly Phe Asn
385	390	395 400
Cys	Glu Lys Lys Met Asp Leu Cys Gly Ser Ser Pro Cys Ser Asn Gly	
	405	410 415
Ala	Lys Cys Val Asp Leu Gly Asn Ser Tyr Leu Cys Arg Cys Gln Ala	
	420	425 430
Gly	Phe Ser Gly Arg Tyr Cys Glu Asp Asn Val Asp Asp Cys Ala Ser	
	435	440 445
Ser	Pro Cys Ala Asn Gly Gly Thr Cys Arg Asp Ser Val Asn Asp Phe	
	450	455 460
Ser	Cys Thr Cys Pro Pro Gly Tyr Thr Gly Lys Asn Cys Ser Ala Pro	
	465	470 475 480
Val	Ser Arg Cys Glu His Ala Pro Cys His Asn Gly Ala Thr Cys His	
	485	490 495
Gln	Arg Gly Gln Arg Tyr Met Cys Glu Cys Ala Gln Gly Tyr Gly Gly	
	500	505 510
Pro	Asn Cys Gln Phe Leu Leu Pro Glu Pro Pro Gly Pro Met Val	
	515	520 525
Val	Asp Leu Ser Glu Arg His Met Glu Ser Gln Gly Gly Pro Phe Pro	
	530	535 540
Trp	Val Ala Val Cys Ala Gly Val Val Leu Val Leu Leu Leu Leu	
	545	550 555 560
Gly	Cys Ala Ala Val Val Val Cys Val Arg Leu Lys Leu Gln Lys His	
	565	570 575
Gln	Pro Pro Pro Glu Pro Cys Gly Gly Glu Thr Glu Thr Met Asn Asn	
	580	585 590
Leu	Ala Asn Cys Gln Arg Glu Lys Asp Val Ser Val Ser Ile Ile Gly	
	595	600 605
Ala	Thr Gln Ile Lys Asn Thr Asn Lys Lys Ala Asp Phe His Gly Asp	
	610	615 620
His	Gly Ala Glu Lys Ser Ser Phe Lys Val Arg Tyr Pro Thr Val Asp	
	625	630 635 640
Tyr	Asn Leu Val Arg Asp Leu Lys Gly Asp Glu Ala Thr Val Arg Asp	
	645	650 655
Thr	His Ser Lys Arg Asp Thr Lys Cys Gln Ser Gln Ser Leu Gln Glu	
	660	665 670
Lys	Arg Arg Ser Pro Gln His Leu Gly Val Gly Arg Phe Leu Thr Glu	
	675	680 685
Asn	Arg Pro Glu Ser Val Tyr Ser Thr Ser Lys Asp Thr Lys Tyr Gln	
	690	695 700
Ser	Val Tyr Val Leu Ser Ala Glu Lys Asp Glu Cys Val Ile Ala Thr	
	705	710 715 720
Glu	Val	

<210> 13
<211> 578
<212> PRT
<213> Artificial Sequence

<220>
<223> Consenses sequence of Chick Delta and Mouse Delta

<400> 13
Met Gly Arg Leu Leu Ala Ser Ala Leu Leu Cys Val Ser Gly Val Phe
1 5 10 15
Glu Leu Lys Leu Gln Glu Phe Val Asn Lys Lys Gly Leu Leu Asn Arg
20 25 30
Asn Cys Cys Arg Gly Gly Cys Cys Thr Phe Phe Arg Val Cys Leu

35	40	45
Lys His Tyr Gln Ala Ser Val Ser Pro Glu Pro Pro Cys Thr Tyr Gly		
50	55	60
Ser Ala Thr Pro Val Leu Gly Ser Phe Ser Pro Asp Gly Ala Gly Asp		
65	70	75
80		
Pro Ala Phe Ser Asn Pro Ile Arg Phe Pro Phe Gly Phe Thr Trp Pro		
85	90	95
Gly Thr Phe Ser Leu Ile Ile Glu Ala Leu His Thr Asp Ser Pro Asp		
100	105	110
Asp Leu Thr Glu Asn Pro Glu Arg Leu Ile Ser Arg Leu Thr Gln Arg		
115	120	125
His Leu Val Gly Glu Glu Trp Ser Gln Asp Leu His Ser Ser Gly Arg		
130	135	140
Thr Asp Leu Tyr Ser Tyr Arg Phe Val Cys Asp Glu His Tyr Tyr Gly		
145	150	155
160		
Glu Gly Cys Ser Val Phe Cys Arg Pro Arg Asp Asp Phe Gly His Phe		
165	170	175
Thr Cys Gly Arg Gly Glu Lys Cys Pro Gly Trp Lys Gly Gln Tyr Cys		
180	185	190
Thr Pro Ile Cys Leu Pro Gly Cys Asp Gln His Gly Cys Asp Lys Pro		
195	200	205
Gly Glu Cys Lys Cys Arg Val Gly Trp Gln Gly Arg Tyr Cys Asp Glu		
210	215	220
Cys Ile Arg Tyr Pro Gly Cys Val His Gly Thr Cys Gln Gln Pro Trp		
225	230	235
240		
Gln Cys Asn Cys Gln Glu Gly Trp Gly Leu Phe Cys Asn Gln Asp		
245	250	255
Leu Asn Tyr Cys Thr His His Lys Pro Cys Asn Gly Ala Thr Cys Thr		
260	265	270
Asn Thr Gly Gln Gly Ser Tyr Thr Cys Ser Cys Arg Pro Gly Tyr Thr		
275	280	285
Gly Cys Glu Glu Glu Cys Pro Cys Lys Asn Gly Ser Cys Thr Asp Leu		
290	295	300
Glu Ser Ser Cys Thr Cys Pro Pro Gly Phe Tyr Gly Lys Cys Glu Leu		
305	310	315
320		
Ser Ala Met Thr Cys Ala Asp Gly Pro Cys Phe Asn Gly Gly Arg Cys		
325	330	335
Asp Asn Pro Asp Gly Gly Tyr Cys Cys Pro Leu Gly Ser Gly Phe Asn		
340	345	350
Cys Glu Lys Lys Asp Cys Ser Ser Pro Cys Asn Gly Ala Cys Val Asp		
355	360	365
Leu Gly Asn Ser Tyr Cys Cys Gln Ala Gly Phe Gly Arg Cys Asp Asn		
370	375	380
Val Asp Asp Cys Ala Ser Pro Cys Asn Gly Gly Thr Cys Asp Val Asn		
385	390	395
400		
Asp Ser Cys Thr Cys Pro Pro Gly Tyr Gly Lys Asn Cys Ser Pro Val		
405	410	415
Ser Arg Cys Glu His Pro Cys His Asn Gly Ala Thr Cys His Arg Arg		
420	425	430
Tyr Cys Glu Cys Ala Gly Tyr Gly Gly Asn Cys Gln Phe Leu Leu Pro		
435	440	445
Glu Pro Pro Gly Pro Val Asp Glu Glu Gln Phe Pro Trp Ala Val Cys		
450	455	460
Ala Gly Leu Val Leu Leu Leu Gly Cys Ala Ala Val Val Cys Val		
465	470	475
480		
Arg Leu Lys Gln Lys Pro Glu Cys Glu Thr Glu Thr Met Asn Asn Leu		
485	490	495
Ala Asn Cys Gln Arg Glu Lys Asp Ser Ser Ile Gly Ala Thr Gln Ile		
500	505	510
Lys Asn Thr Asn Lys Lys Asp Phe His Asp Lys Lys Val Arg Tyr Pro		
515	520	525

Val Asp Tyr Asn Leu Val Leu Lys Val His Lys Lys Cys Ser Glu Glu
530 535 540
Lys Ala Leu Arg Lys Arg Pro Ser Val Tyr Ser Thr Ser Lys Asp Thr
545 550 555 560
Lys Tyr Gln Ser Val Tyr Val Ser Glu Lys Asp Glu Cys Ile Ala Thr
565 570 575
Glu Val

<210> 14
<211> 525
<212> DNA
<213> Homo sapiens

<400> 14
tacgatgaay aacctggcga actgccagcg tgagaaggac atctcagtca gcatcatcg 60
ggcyacgtca gatcargaac accaacaaga aggccgactt ymcascgggg gaccasagcg 120
tccgacaaga atggmttca aggccccta ccccagcgtg gactataact cgtgcaggac 180
ctcaagggtg acgacaccgc cgtcaggacg tcgcacagca agcgtgacac caagtgccag 240
tccccaggct cctcaggag gagaagggaa ccccgaccac actcagggk tgcgtgctgc 300
ggccgggct caggaggggg tacctgggg gtgtcttcct ggaaccactg ctccgtttct 360
cttcccaaat gttctcatgc attcattgtg gatttctct atttccttt tagtgagaa 420
gcatctgaaa gaaaaaggcc ggactcgggc tgttcaactt caaaagacac caagtaccag 480
tcggtgtacg tcatatccga ggagaaggac gagtgcgta tcgca 525

<210> 15
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Predicted amino acid sequence of humna delta

<220>
<221> VARIANT
<222> 4
<223> Xaa = Any Amino Acid

<400> 15
Tyr Asp Glu Xaa Pro Gly Glu Leu Pro Ala
1 5 10

<210> 16
<211> 44
<212> PRT
<213> Artificial Sequence

<220>
<223> Predicted amino acid sequence of humna delta

<220>
<221> VARIANT
<222> 11, 15, 23, 24, 28
<223> Xaa = Any Amino Acid

<400> 16
Glu Gly His Leu Ser Gln His His Arg Gly Xaa Val Arg Ser Xaa Thr
1 5 10 15
Pro Thr Arg Arg Arg Thr Xaa Xaa Arg Gly Thr Xaa Ala Ser Asp Lys

20 25 30
Asn Gly Phe Gln Gly Pro Leu Pro Gln Arg Gly Leu
35 40

<210> 17
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Predicted amino acid sequence of humna delta

<220>
<221> VARIANT
<222> 41
<223> Xaa = Any Amino Acid

<400> 17
Leu Val Gln Asp Leu Lys Gly Asp Asp Thr Ala Val Arg Thr Ser His
1 5 10 15
Ser Lys Arg Asp Thr Lys Cys Gln Ser Pro Gly Ser Ser Gly Arg Arg
20 25 30
Arg Gly Pro Arg Pro His Ser Gly Xaa Ala Cys Cys Gly Pro Gly Ser
35 40 45
Gly Gly Gly Thr Trp Gly Val Ser Ser Trp His Cys Ser Val Ser Leu
50 55 60
Pro Lys Cys Ser His Ala Phe Ile Val Asp Phe Leu Tyr Phe Pro Phe
65 70 75 80
Ser Gly Glu Ala Ser Glu Arg Lys Arg Pro Asp Ser Gly Cys Ser Thr
85 90 95
Ser Lys Asp Thr Lys Tyr Gln Ser Val Tyr Val Ile Ser Glu Glu Lys
100 105 110
Asp Glu Cys Val Ile Ala
115

<210> 18
<211> 173
<212> PRT
<213> Artificial Sequence

<220>
<223> Predicted amino acid sequence of human delta

<220>
<221> VARIANT
<222> 34, 35, 39, 44, 96
<223> Xaa = Any Amino Acid

<400> 18
Thr Met Asn Asn Leu Ala Asn Cys Gln Arg Glu Lys Asp Ile Ser Val
1 5 10 15
Ser Ile Ile Gly Ala Thr Ser Asp Gln Glu His Gln Gln Glu Gly Gly
20 25 30
Leu Xaa Xaa Gly Gly Pro Xaa Pro Thr Arg Met Xaa Phe Lys Ala Arg
35 40 45
Tyr Pro Ser Val Asp Tyr Asn Ser Cys Arg Thr Ser Arg Val Thr Thr
50 55 60
Pro Pro Ser Gly Arg Arg Thr Ala Ser Val Thr Pro Ser Ala Ser Pro
65 70 75 80

Gln Ala Pro Gln Gly Gly Glu Gly Asp Pro Asp His Thr Gln Gly Xaa
85 90 95
Arg Ala Ala Gly Arg Ala Gln Glu Gly Val Pro Gly Gly Cys Leu Pro
100 105 110
Gly Thr Thr Ala Pro Phe Leu Phe Pro Asn Val Leu Met His Ser Leu
115 120 125
Trp Ile Phe Ser Ile Phe Leu Leu Val Glu Lys His Leu Lys Glu Lys
130 135 140
Gly Arg Thr Arg Ala Val Gln Leu Gln Lys Thr Pro Ser Thr Ser Arg
145 150 155 160
Cys Thr Ser Tyr Pro Arg Arg Arg Thr Ser Ala Ser Ser
165 170

<210> 19
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> Predicted amino acid sequence of human delta

<220>
<221> VARIANT
<222> 1, 19, 23, 32, 33, 36, 43
<223> Xaa = Any Amino Acid

<400> 19
Xaa Thr Trp Arg Thr Ala Ser Val Arg Arg Thr Ser Gln Ser Ala Ser
1 5 10 15
Ser Gly Xaa Arg Gln Ile Xaa Asn Thr Asn Lys Lys Ala Asp Phe Xaa
20 25 30
Xaa Gly Asp Xaa Ser Val Arg Gln Glu Trp Xaa Ser Arg Pro Ala Thr
35 40 45
Pro Ala Trp Thr Ile Thr Arg Ala Gly Pro Gln Gly
50 55 60

<210> 20
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Predicted amino acid sequence of human delta

<400> 20
Arg His Arg Arg Gln Asp Val Ala Gln Gln Ala
1 5 10

<210> 21
<211> 61
<212> PRT
<213> Artificial Sequence

<220>
<223> Predicted amino acid sequence of human delta

<400> 21
His Gln Val Pro Val Pro Arg Leu Leu Arg Glu Glu Lys Gly Thr Pro

1	5	10	15												
Thr	Thr	Leu	Arg	Gly	Cys	Val	Leu	Arg	Ala	Gly	Leu	Arg	Arg	Gly	Tyr
		20					25					30			
Leu	Gly	Gly	Val	Phe	Leu	Glu	Pro	Leu	Leu	Arg	Phe	Ser	Ser	Gln	Met
		35				40					45				
Phe	Ser	Cys	Ile	His	Cys	Gly	Phe	Ser	Leu	Phe	Ser	Phe			
		50				55				60					

<210> 22

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Predicted amino acid sequence of human delta

<400> 22

Lys	Lys	Lys	Ala	Gly	Leu	Gly	Leu	Phe	Asn	Phe	Lys	Lys	Arg	His	Gln
1			5				10				15				
Val	Pro	Val	Gly	Val	Arg	His	Ile	Arg	Gly	Glu	Gly	Arg	Val	Arg	His
		20					25				30				

Arg

<210> 23

<211> 175

<212> PRT

<213> Artificial Sequence

<220>

<223> Predicted amino acid sequence of human delta

<220>

<221> VARIANT

<222> 25, 34, 35, 38, 97

<223> Xaa = Any Amino Acid

<400> 23

Thr	Met	Asn	Asn	Leu	Ala	Asn	Cys	Gln	Arg	Glu	Lys	Asp	Ile	Ser	Val
1				5				10				15			
Ser	Ile	Ile	Gly	Ala	Thr	Gly	Ile	Xaa	Asn	Thr	Asn	Lys	Lys	Ala	Asp
							20		25			30			
Phe	Xaa	Xaa	Gly	Asp	Xaa	Ser	Ser	Asp	Lys	Asn	Gly	Phe	Gln	Lys	Ala
							35		40			45			
Arg	Tyr	Pro	Ser	Val	Asp	Tyr	Asn	Leu	Val	Gln	Asp	Leu	Lys	Gly	Asp
							50		55			60			
Asp	Thr	Ala	Val	Arg	Thr	Ser	His	Ser	Lys	Arg	Asp	Thr	Lys	Cys	Gln
							65		70			75			80
Ser	Pro	Gly	Ser	Ser	Gly	Arg	Arg	Arg	Gly	Pro	Arg	Pro	His	Ser	Gly
							85		90			95			
Xaa	Ala	Cys	Cys	Gly	Pro	Gly	Ser	Gly	Gly	Thr	Trp	Gly	Val	Ser	
							100		105			110			
Ser	Trp	Asn	His	Cys	Ser	Val	Ser	Leu	Pro	Lys	Cys	Ser	His	Ala	Phe
							115		120			125			
Ile	Val	Asp	Phe	Leu	Tyr	Phe	Pro	Phe	Ser	Gly	Glu	Ala	Ser	Glu	Arg
							130		135			140			
Lys	Arg	Pro	Asp	Ser	Gly	Cys	Ser	Thr	Ser	Lys	Asp	Thr	Lys	Tyr	Gln
							145		150			155			160
Ser	Val	Tyr	Val	Ile	Ser	Glu	Glu	Lys	Asp	Glu	Cys	Val	Ile	Ala	

165

170

175

<210> 24
<211> 2899
<212> DNA
<213> Artificial Sequence

<220>
<223> Consenses sequence of mouse delta and human delta

<220>
<221> misc_feature
<222> 854, 973, 984, 1582, 1787, 1819, 1864, 1916, 1951, 2033,
2152, 2156, 2171, 2183, 2194, 2212, 2220, 2226, 2230, 2244,
2245, 2264, 2265, 2266, 2287
<223> n = A,T,C or G

<400> 24
gtccagcggt accatgggcc gtcggagcgc gctaccctt gccgtggtct ctgccctgct 60
gtgccaggtc tggagctccg gcgtatttga gctgaagctg caggagttcg tcaacaagaa 120
ggggctgctg gggAACCGCA actgctgccg cggggctct ggcccgcctt gcgcctgcag 180
gaccttctt cgcgtatgcc tcaaccacta ccaggccagc gtgtcaccgg agccaccctg 240
cacctacggc agtgcgttca cgccagtgtc gggcttcgac tccttcagcc tgccctsatkg 300
sgyagsrsryc smccycgagg yckwcrgyaw csmyaagyyy gatatcgmmmy tycggcttca 360
cctggccrrgg yacttctct ctgatyattg aagcyctcca yacagaytct ccygatgacc 420
tcgcaacaga aaaccagaa agactcatca gcccgcctgrc cacycagagg cacctsackg 480
tgggmgarga rtggctcycag gacctkcaca gyagcggccg cacrgacctc mrgtactcyt 540
accgsttygt gtgtgacgar cactactacg gagarggytg ctctgtkttc tgccgwccyc 600
gggagaygc cttggccac ttcacctgyg gggasmgwgg ggagaarrtg tgcraaccctg 660
gctggaaagg scmgtaactgc acwgascra tctgyctgcc wggrtgtgat gascarcatg 720
gatwytgtga caaaccaggg gartgcaagt gcaagatkgg ctggcagggc cgstactgyg 780
atgagtgyat ccgytaycca ggytgcctcc atggcacctg ccagcarccc tggcagtgya 840
actgccagga aggnntgggg ggcctttct gcaaccarga cctgaactac tgyacwcacc 900
ataagccstg cargoaatggc gccacactgca acmaaacacgg gccaggggga gctacacwtg 960
ktcyttggcc ggncykgggt ayanagggtg ccamctgya agcttgggra ktrgaygagt 1020
tggmyccy agcccytggy aagaacggag sgagctksac ggaycttcgg agracagctw 1080
ctcytgyacc tgccccccc gcttctaygg caarrtctgt garytgaggg ccatgacctg 1140
tgcrayggc cttgcttya ayggrrggwgc rtgytcagay arcccygagg gaggstacas 1200
ctgcccrytgc cccktggct wctcyggct caactgtgag aagaaratkg ayywctgcrg 1260
ctcttcemccy tggtaayg gtgccaagtg tggacctc ggyraykcyt acctgtgcgg 1320
stgccaggc ggcttctcsg ggaggyactg ygasgacaay gtggaygact gygcctcc 1380
cccgtygcm aayggggca cctgccggg yrgygtgaac gacttgcct gyacctgcc 1440
rcctggctac acgggcarga actgcagyg cccygyccagc aggtgygagc aygcaccctg 1500
ccayaatggg gccacactgcc acsagagggg ccasctgat wtgtgygagt gygcrrrrg 1560
ctayggsggy cccaactgcc anttyctgt cccygaarcy gmccmccmrg scccayggg 1620
gtggamctc msykararrm aymtarraagr gcccwttcccc tkggtygycg 1680
tgtgyccgg ggtstsctt gtcctcmtgc tgctgctggg ctgtgcgt gtgggtgt 1740
gcgtccggct gargoctrac aarcaccrhc cyccascyga mcccctgnsgg grrgagacrg 1800
araccatgaa caaccctrngc aaytgccagc gygagaagga crtytcwgyt agcatcatyg 1860
gggnnyacsca catcaagaac accaacaaga aggccgactt ycacggggac cayrngncr 1920
asaagaryrg cttyaaggyc cgmtacccmr nkgtggacta taacctcgtk crrgacctca 1980
agggwqayga mrccrcsgtc agggayrcrc acagcaarcg tgacaccaag tgncagycmc 2040
agrgctcykg aggrgargag aaggggaycs ccgaccmaca ctyagggggt ggaggaagmw 2100
tcytgamaga aaaaggccrg astyygggy trytcwactt tcaaargaca ancmangtac 2160
magtcggtgt nygtymtktc ygnagragga aggntgastg ygtyataggm rnytgaggt 2220
gtaarntggn agcgatgtgg caannttccc atttctcksa aaknnnattc cmmggatata 2280
gcycggntga atgctkctga gagaggaagg gagagggaaac ccagggactg ytkytcagaa 2340
ccaggttcag gcgaagctgg ttctctcaga gtttagcagag gcccgcata ctgcccagct 2400
aggcttggc tgccgctgga ctgcctgctg gttgttccca ttgcactatg gacagttgt 2460
ttaaagagta tatattaaa tggacgagtg acttgattca tatacgaagc acgcactgcc 2520

cacacgtcta tcttgattt ctagagcca gtccttcctt gaactagaaa cacaactgcc 2580
 ttatttgtcc ttttgatac tgagatgtgt tttttttttt cctagacggg aaaaagaaaa 2640
 cgtgtgttat tttttggta tttgtaaaaa tattttcat gatatctgt aagcttgagt 2700
 attttgtgac gttcattttt ttataattt aattttggta aatatgtaca aaggcacttc 2760
 gggcttatgt gactatattt ttttgatataaaatgtattt atggaatattt gtgcaaatgt 2820
 tatttgagtt ttttactgtt ttgttaatga agaaattcat tttaaaaata tttttccaaa 2880
 ataaatataaa tgaactaca 2899

<210> 25
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> sequence encoded by SEQ ID NO. 93 (degenerated
 oligo)

<400> 25
 Glu Lys Asp Glu Cys Val Ile Ala
 1 5

<210> 26
 <211> 1981
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 559, 678, 689, 1287, 1492, 1524, 1569, 1621, 1656, 1738,
 1857, 1861, 1876, 1888, 1899, 1917, 1925, 1931, 1935, 1942,
 1943, 1952, 1953, 1954, 1968
 <223> n = A,T,C or G

<400> 26
 cattgggtac gggccccctt cgaggtcgac ggtatcgata agcttgatata cgaattccgg 60
 cttcacctgg ccgggcaccc tctctctgat tattgaagct ctccacacag attctcctga 120
 tgacctcgca acagaaaaacc cagaaagact catcagccgc ctggccaccc agaggcacct 180
 gacgggtggc gaggagtggt cccaggaccc gcacagcagc ggccgcacgg acctcaagta 240
 ctccctaccgc ttcgtgtgtg acgaacacta ctacggagag ggctgtccg ttttctgccg 300
 tccccgggac gatgccttcg gccacttcac ctgtggggag cgtggggaga aagtgtgcaa 360
 ccctggctgg aaaggcccct actgcacaga gccgatctgc ctgcctggat gtgtatgagca 420
 gcatggattt tgtgacaaac caggggaatg caagtgcaga gtgggctggc agggccggta 480
 ctgtgacgag tgtatccgct atccaggctg tctccatggc acctgcaccc agccctggca 540
 qtgcaactgc caggaaggnt gggggggcct tttctgcaac caggacctga actactgcac 600
 acaccataag ccctgcaaga atggagccac ctgcaacaaa cacggggccag ggggagctac 660
 acttggtctt tggccgnct ggggtacana ggggtccacc tgcgaagctt ggggatttgg 720
 cgagttgtt accccagccc ttggtaagaa cggagggagc ttgacggatc ttccggagaac 780
 agctactcct gtacctgccc acccggttcc tacggcaaaa tctgtgaatt gagtgcac 840
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 tacagctgcc gctgccccgt gggctactcc ggcttcaact gtgagaagaa aattgactac 960
 tgcagctctt caccctgttc taatggtgcc aagtgtgtgg acctcggtga tgcctacctg 1020
 tgccgctgcc agggccggctt ctcggggagg cactgtgacg acaacgtgga cgactgcgcc 1080
 tcctccccgt gcgccaaacgg gggcacctgc cggatggcg tgaacgactt ctccctgcacc 1140
 tgcccgctg gctacacggg caggaactgc agtgcggcccg ccagcagggtg cgagcacgca 1200
 ccctgccaca atggggccac ctgccacagg agggggccacc gctattgtg cgagtggtgcc 1260
 cgaagctacg ggggtcccaa ctgcccattc ctgctccccg aaactgcccc cccggcccca 1320
 cggtgtggaa aactcccccta aaaaaaccta aaaggccgg gggggggccca tccccttgg 1380
 ggacgtgtgc gccgggggtca tcctgtctt catgctgctg ctgggtgtg ccgtgtgg 1440
 ggtctgcgtc cggctgaggc tgcagaagca ccggccccca gccgaccctt gnccggggga 1500
 gacggagacc atgaacaacc tggncaactg ccagcgtgag aaggacatct cagtcagcat 1560

catcggggnc acgcagatca agaacaccaa caagaaggcg gacttccacg gggaccacag 1620
ngccgacaag aatggcttca aggccccta cccagnggtg gactataacc tcgtgcagga 1680
cctcaagggt gacgacacccg ccgtcagggc cgcccacago aagcgtgaca ccaagtgnca 1740
gccccagggc tcctcagggg aggagaaggg gaccccccac ccacactcag ggggtggagg 1800
aagcatctt aaaaaaaag gccggacttc gggcttgttc aactttcaaa agacaancaa 1860
ngtacaagtc ggtgtncgtc atttccgnag gaggaaggnt gactgcgtca taggaantt 1920
aggtngtaaa ntggnagttg annttgaaa gnntcccg gattccgntt tcaaagttt 1980
t 1981

<210> 27
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<400> 27
His Trp Val Arg Ala Pro Leu Glu Val Asp Gly Ile Asp Lys Leu Asp
1 5 10 15
Ile Glu Phe Arg Leu His Leu Ala Gly His Leu Leu Ser Asp Tyr
20 25 30

<210> 28
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<400> 28
Ser Ser Pro His Arg Phe Ser
1 5

<210> 29
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<400> 29
Pro Arg Asn Arg Lys Pro Arg Lys Thr His Gln Pro Pro Gly His Pro
1 5 10 15
Glu Ala Pro Asp Gly Gly Arg Gly Val Val Pro Gly Pro Ala Gln Gln
20 25 30
Arg Pro His Gly Pro Gln Val Leu Leu Pro Leu Arg Val
35 40 45

<210> 30
<211> 49
<212> PRT
<213> Artificial Sequence

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<220>
<223> Deduced amino acid sequence using the three
      possible ORF of human Delta contigs

<400> 30
Arg Thr Leu Leu Arg Arg Gly Leu Leu Arg Phe Pro Ser Pro Gly Arg
  1           5           10          15
Cys Leu Arg Pro Leu His Leu Trp Gly Ala Trp Gly Glu Ser Val Gln
  20          25          30
Pro Trp Leu Glu Arg Ala Leu Leu His Arg Ala Asp Leu Pro Ala Trp
  35          40          45

Met

<210> 31
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
      possible ORF of human Delta contigs

<400> 31
Ala Ala Trp Ile Leu
  1           5

<210> 32
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
      possible ORF of human Delta contigs

<400> 32
Gln Thr Arg Gly Met Gln Val Gln Ser Gly Leu Ala Gly Pro Val Leu
  1           5           10          15

<210> 33
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
      possible ORF of human Delta contigs

<220>
<221> VARIANT
<222> 25
<223> Xaa = Any Amino Acid

<400> 33
Arg Val Tyr Pro Leu Ser Arg Leu Ser Pro Trp His Leu Pro Ala Ala
  1           5           10          15

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Leu Ala Val Gln Leu Pro Gly Arg Xaa Gly Gly Pro Phe Leu Gln Pro
 20 25 30
 Gly Pro Glu Leu Leu His Thr Pro
 35 40

<210> 34
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 27
 <223> Xaa = Any Amino Acid

<400> 34
 Ala Leu Gln Glu Trp Ser His Leu Gln Gln Thr Arg Ala Arg Gly Ser
 1 5 10 15
 Tyr Thr Trp Ser Leu Ala Gly Leu Gly Tyr Xaa Gly Cys His Leu Arg
 20 25 30

Ser Leu Gly Ile Gly Arg Val Val Asp Pro Ser Pro Trp
 35 40 45

<210> 35
 <211> 196
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 166, 179
 <223> Xaa = Any Amino Acid

<400> 35
 Glu Arg Arg Glu Leu Asp Gly Ser Ser Glu Asn Ser Tyr Ser Cys Thr
 1 5 10 15
 Cys Pro Pro Gly Phe Tyr Gly Lys Ile Cys Glu Leu Ser Ala Met Thr
 20 25 30

Cys Ala Asp Gly Pro Cys Phe Asn Gly Gly Arg Cys Ser Asp Pro Asp
 35 40 45

Gly Gly Tyr Ser Cys Arg Cys Pro Val Gly Tyr Ser Gly Phe Asn Cys
 50 55 60

Glu Lys Lys Ile Asp Tyr Cys Ser Ser Pro Cys Ser Asn Gly Ala
 65 70 75 80

Lys Cys Val Asp Leu Gly Asp Ala Tyr Leu Cys Arg Gly Gln Ala Gly
 85 90 95

Phe Ser Gly Arg His Cys Asp Asp Asn Val Asp Asp Cys Ala Ser Ser
 100 105 110

Pro Cys Ala Asn Gly Gly Thr Cys Arg Asp Gly Val Asn Asp Phe Ser
 115 120 125

Cys Thr Cys Pro Pro Gly Tyr Thr Gly Arg Asn Cys Ser Ala Pro Ala

130	135	140
Ser Arg Cys Glu His Ala Pro Cys His Asn Gly Ala Thr Cys His Glu		
145	150	155
Arg Gly His Arg Tyr Xaa Cys Glu Cys Ala Arg Ser Tyr Gly Gly Pro		160
165	170	175
Asn Cys Xaa Phe Leu Leu Pro Glu Thr Ala Pro Pro Ala Pro Arg Trp		
180	185	190
Trp Lys Leu Pro		
195		

<210> 36
<211> 65
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<220>
<221> VARIANT
<222> 51
<223> Xaa = Any Amino Acid

<400> 36
Lys Asn Leu Lys Gly Pro Gly Gly Ala His Pro Leu Gly Gly Arg Val
1 5 10 15
Arg Arg Gly His Pro Cys Pro His Ala Ala Ala Gly Leu Cys Arg Cys
20 25 30
Gly Gly Leu Arg Pro Ala Glu Ala Ala Glu Ala Pro Ala Pro Ser Arg
35 40 45
Pro Leu Xaa Gly Gly Asp Gly Asp His Glu Gln Pro Gly Gln Leu Pro
50 55 60
Ala
65

<210> 37
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<220>
<221> VARIANT
<222> 28, 39
<223> Xaa = Any Amino Acid

<400> 37
Glu Gly His Leu Ser Gln His His Arg Gly His Ala Asp Gln Glu His
1 5 10 15
Gln Gln Glu Gly Gly Leu Pro Arg Gly Pro Gln Xaa Arg Gln Glu Trp
20 25 30
Leu Gln Gly Pro Leu Pro Xaa Gly Gly Leu
35 40

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<210> 38
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
      possible ORF of human Delta contigs

<400> 38
Pro Arg Ala Gly Pro Gln Gly
 1           5

<210> 39
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
      possible ORF of human Delta contigs

<400> 39
Arg His Arg Arg Gln Gly Arg Ala Gln Gln Ala
 1           5           10

<210> 40
<211> 57
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
      possible ORF of human Delta contigs

<220>
<221> VARIANT
<222> 4, 43, 45, 50, 54
<223> Xaa = Any Amino Acid

<400> 40
His Gln Val Xaa Ala Pro Gly Leu Leu Arg Gly Gly Glu Gly Asp Pro
 1           5           10          15
Arg Pro Thr Leu Arg Gly Trp Arg Lys His Leu Glu Arg Lys Arg Pro
 20          25          30
Asp Phe Gly Leu Val Gln Leu Ser Lys Asp Xaa Gln Xaa Thr Ser Arg
 35          40          45
Cys Xaa Ser Phe Pro Xaa Glu Glu Gly
 50          55

<210> 41
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
      possible ORF of human Delta contigs

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<220>
<221> VARIANT
<222> 5, 8
<223> Xaa = Any Amino Acid

<400> 41
Leu Arg His Arg Xaa Leu Arg Xaa
 1           5

<210> 42
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
      possible ORF of human Delta contigs

<220>
<221> VARIANT
<222> 1, 4, 5
<223> Xaa = Any Amino Acid

<400> 42
Xaa Trp Lys Xaa Xaa Pro Gly Phe Arg Phe Gln Ser Phe
 1           5           10

<210> 43
<211> 276
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
      possible ORF of human Delta contigs

<220>
<221> VARIANT
<222> 226, 230
<223> Xaa = Any Amino Acid

<400> 43
Ile Gly Tyr Gly Pro Pro Ser Arg Ser Thr Val Ser Ile Ser Leu Ile
 1           5           10           15
Ser Asn Ser Gly Phe Thr Trp Pro Gly Thr Phe Ser Leu Ile Ile Glu
 20          25           30
Ala Leu His Thr Asp Ser Pro Asp Asp Leu Ala Thr Glu Asn Pro Glu
 35          40           45
Arg Leu Ile Ser Arg Leu Ala Thr Gln Arg His Leu Thr Val Gly Glu
 50          55           60
Glu Trp Ser Gln Asp Leu His Ser Ser Gly Arg Thr Asp Leu Lys Tyr
 65          70           75           80
Ser Tyr Arg Phe Val Cys Asp Glu His Tyr Tyr Gly Glu Gly Cys Ser
 85          90           95
Val Phe Cys Arg Pro Arg Asp Asp Ala Phe Gly His Phe Thr Cys Gly
100         105          110
Glu Arg Gly Glu Lys Val Cys Asn Pro Gly Trp Lys Gly Pro Tyr Cys
115         120          125

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Thr Glu Pro Ile Cys Leu Pro Gly Cys Asp Glu Gln His Gly Phe Cys
 130 135 140
 Asp Lys Pro Gly Glu Cys Lys Cys Arg Val Gly Trp Gln Gly Arg Tyr
 145 150 155 160
 Cys Asp Glu Cys Ile Arg Tyr Pro Gly Cys Leu His Gly Thr Cys Gln
 165 170 175
 Gln Pro Trp Gln Cys Asn Cys Gln Glu Gly Trp Gly Gly Leu Phe Cys
 180 185 190
 Asn Gln Asp Leu Asn Tyr Cys Thr His Lys Pro Cys Lys Asn Gly
 195 200 205
 Ala Thr Cys Asn Lys His Gly Pro Gly Gly Ala Thr Leu Gly Leu Trp
 210 215 220
 Pro Xaa Trp Gly Thr Xaa Gly Ala Thr Cys Glu Ala Trp Gly Leu Asp
 225 230 235 240
 Glu Leu Leu Thr Pro Ala Leu Gly Lys Asn Gly Gly Ser Leu Thr Asp
 245 250 255
 Leu Arg Arg Thr Ala Thr Pro Val Pro Ala His Pro Ala Ser Thr Ala
 260 265 270
 Lys Ser Val Asn
 275

<210> 44
 <211> 93
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<400> 44
 Pro Val Arg Thr Ala Leu Ala Leu Thr Gly Val Gly Ala Gln Thr Ala
 1 5 10 15
 Pro Met Glu Gly Thr Ala Ala Ala Ala Pro Trp Ala Thr Pro Ala Ser
 20 25 30
 Thr Val Arg Arg Lys Leu Thr Thr Ala Ala Leu His Pro Val Leu Met
 35 40 45
 Val Pro Ser Val Trp Thr Ser Val Met Pro Thr Cys Ala Ala Ala Arg
 50 55 60
 Pro Ala Ser Arg Gly Gly Thr Val Thr Thr Trp Thr Thr Ala Pro
 65 70 75 80
 Pro Pro Arg Ala Pro Thr Gly Ala Pro Ala Gly Met Ala
 85 90

<210> 45
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 55
 <223> Xaa = Any Amino Acid

<400> 45

Thr	Thr	Ser	Pro	Ala	Pro	Ala	Arg	Leu	Ala	Thr	Arg	Ala	Gly	Thr	Ala
1				5						10					15
Val	Pro	Pro	Pro	Ala	Gly	Ala	Ser	Thr	His	Pro	Ala	Thr	Met	Gly	Pro
				20				25					30		
Pro	Ala	Thr	Arg	Gly	Ala	Thr	Ala	Ile	Cys	Ala	Ser	Val	Pro	Glu	Ala
				35				40				45			
Thr	Gly	Val	Pro	Thr	Ala	Xaa	Ser	Cys	Pro	Lys	Leu	Pro	Pro	Arg	Pro
				50			55			60					
His	Gly	Gly	Gly	Asn	Ser	Pro	Lys	Lys	Thr						
				65			70								

<210> 46
<211> 187
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<220>
<221> VARIANT
<222> 47, 58, 73, 101, 128, 167, 168, 181, 187
<223> Xaa = Any Amino Acid

<400> 46																
Lys	Gly	Arg	Gly	Gly	Pro	Ile	Pro	Leu	Val	Asp	Val	Cys	Ala	Gly	Val	
1					5				10				15			
Ile	Leu	Val	Leu	Met	Leu	Leu	Gly	Cys	Ala	Ala	Val	Val	Val	Cys		
					20			25				30				
Val	Arg	Leu	Arg	Leu	Gln	Lys	His	Arg	Pro	Pro	Ala	Asp	Pro	Xaa	Arg	
					35			40				45				
Gly	Glu	Thr	Glu	Thr	Met	Asn	Asn	Leu	Xaa	Asn	Cys	Gln	Arg	Glu	Lys	
					50			55			60					
Asp	Ile	Ser	Val	Ser	Ile	Ile	Gly	Xaa	Thr	Gln	Ile	Lys	Asn	Thr	Asn	
					65		70		75				80			
Lys	Lys	Ala	Asp	Phe	His	Gly	Asp	His	Ala	Asp	Lys	Asn	Gly	Phe	Lys	
					85			90				95				
Ala	Arg	Tyr	Pro	Xaa	Val	Asp	Tyr	Asn	Leu	Val	Gln	Asp	Leu	Lys	Gly	
					100			105			110					
Asp	Asp	Thr	Ala	Val	Arg	Asp	Ala	His	Ser	Lys	Arg	Asp	Thr	Lys	Xaa	
					115			120			125					
Gln	Pro	Gln	Gly	Ser	Ser	Gly	Glu	Glu	Gly	Thr	Pro	Asp	Pro	His	Ser	
					130			135			140					
Gly	Gly	Gly	Gly	Ser	Ile	Leu	Lys	Glu	Lys	Gly	Arg	Thr	Ser	Gly	Leu	
					145			150			155			160		
Phe	Asn	Phe	Gln	Lys	Thr	Xaa	Xaa	Val	Gln	Val	Gly	Val	Arg	His	Phe	
					165			170				175				
Arg	Arg	Arg	Lys	Xaa	Asp	Cys	Val	Ile	Gly	Xaa						
					180			185								

<210> 47
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

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<220>
<221> VARIANT
<222> 2, 4, 5, 7, 8, 11, 16
<223> Xaa = Any Amino Acid

<400> 47
Gly Xaa Lys Xaa Xaa Val Xaa Xaa Gly Lys Xaa Ser Pro Asp Ser Xaa
 1           5           10          15
Phe Lys Val Phe
 20

<210> 48
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
      possible ORF of human Delta contigs

<400> 48
Leu Gly Thr Gly Pro Pro Arg Gly Arg Arg Tyr Arg
 1           5           10

<210> 49
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
      possible ORF of human Delta contigs

<400> 49
Tyr Arg Ile Pro Ala Ser Pro Gly Arg Ala Pro Ser Leu
 1           5           10

<210> 50
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
      possible ORF of human Delta contigs

<400> 50
Leu Leu Lys Leu Ser Thr Gln Ile Leu Leu Met Thr Ser Gln Gln Lys
 1           5           10          15
Thr Gln Lys Asp Ser Ser Ala Ala Trp Pro Pro Arg Gly Thr
 20          25          30

<210> 51
<211> 135
<212> PRT
<213> Artificial Sequence

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<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<220>
<221> VARIANT
<222> 126
<223> Xaa = Any Amino Acid

<400> 51
Arg Trp Ala Arg Ser Gly Pro Arg Thr Cys Thr Ala Ala Ala Ala Arg
1 5 10 15
Thr Ser Ser Thr Pro Thr Ala Ser Cys Val Thr Asn Thr Thr Thr Glu
20 25 30
Arg Ala Ala Pro Phe Ser Ala Val Pro Gly Thr Met Pro Ser Ala Thr
35 40 45
Ser Pro Val Cys Ser Val Gly Arg Lys Cys Ala Thr Leu Ala Gly Lys
50 55 60
Gly Pro Thr Ala Gln Ser Arg Ser Ala Cys Leu Asp Val Met Ser Ser
65 70 75 80
Met Asp Phe Phe Val Thr Asn Gln Asn Ala Ser Ala Glu Trp Ala Gly
85 90 95
Arg Ala Gly Thr Val Thr Ser Val Ser Ala Ile Gln Ala Val Ser Met
100 105 110
Ala Pro Ala Ser Ser Pro Gly Ser Ala Thr Ala Arg Lys Xaa Gly Gly
115 120 125
Ala Phe Ser Ala Thr Arg Thr
130 135

<210> 52
<211> 46
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<220>
<221> VARIANT
<222> 30, 33
<223> Xaa = Any Amino Acid

<400> 52
Thr Thr Ala His Thr Ile Ser Pro Ala Arg Met Glu Pro Pro Ala Thr
1 5 10 15
Asn Thr Gly Gln Gly Glu Leu His Leu Val Phe Gly Arg Xaa Gly Val
20 25 30
Xaa Arg Val Pro Pro Ala Lys Leu Gly Asp Trp Thr Ser Cys
35 40 45

<210> 53
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three

possible ORF of human Delta contigs

<400> 53
Pro Gln Pro Leu Val Arg Thr Glu Gln Glu
1 5 10

<210> 54
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<400> 54
Arg Ile Phe Gly Glu Gln Leu Leu Leu Tyr Leu Pro Thr Arg Leu Leu
1 5 10 15
Arg Gln Asn Leu
20

<210> 55
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<400> 55
Ile Glu Cys His Asp Leu Cys Gly Arg Pro Leu Leu
1 5 10

<210> 56
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<400> 56
Arg Gly Ser Val Leu Arg Gln Pro Arg Trp Arg Val Gln Leu Pro Leu
1 5 10 15
Pro Arg Gly Leu Leu Arg Leu Gln Leu
20 25

<210> 57
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

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<400> 57
Leu Leu Gln Leu Phe Thr Leu Phe
 1           5

<210> 58
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
      possible ORF of human Delta contigs

<400> 58
Trp Cys Gln Val Cys Gly Pro Arg
 1           5

<210> 59
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
      possible ORF of human Delta contigs

<400> 59
Cys Leu Pro Val Pro Leu Pro Gly Arg Leu Leu Gly Glu Ala Leu
 1           5           10           15

<210> 60
<211> 131
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
      possible ORF of human Delta contigs

<220>
<221> VARIANT
<222> 76
<223> Xaa = Any Amino Acid

<400> 60
Arg Gln Arg Gly Arg Leu Arg Leu Leu Pro Val Arg Gln Gly His Leu
 1           5           10           15
Pro Gly Trp Arg Glu Arg Leu Leu Leu His Leu Pro Ala Trp Leu His
 20          25          30
Gly Gln Glu Leu Gln Cys Pro Arg Gln Gln Val Arg Ala Arg Thr Leu
 35          40          45
Pro Gln Trp Gly His Leu Pro Arg Glu Gly Pro Pro Leu Phe Val Arg
 50          55          60
Val Cys Pro Lys Leu Arg Gly Ser Gln Leu Pro Xaa Pro Ala Pro Arg
 65          70          75          80
Asn Cys Pro Pro Gly Pro Thr Val Val Glu Thr Pro Leu Lys Lys Pro
 85          90          95

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Lys Arg Ala Gly Gly Pro Ser Pro Trp Trp Thr Cys Ala Pro Gly
100 105 110
Ser Ser Leu Ser Ser Cys Cys Cys Trp Ala Val Pro Leu Trp Trp Ser
115 120 125
Ala Ser Gly
130

<210> 61
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<220>
<221> VARIANT
<222> 12
<223> Xaa = Any Amino Acid

<400> 61
Gly Cys Arg Ser Thr Gly Pro Gln Pro Thr Pro Xaa Gly Gly Arg Arg
1 5 10 15
Arg Pro

<210> 62
<211> 98
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<220>
<221> VARIANT
<222> 4, 19, 36, 48, 75
<223> Xaa = Any Amino Acid

<400> 62
Thr Thr Trp Xaa Thr Ala Ser Val Arg Arg Thr Ser Gln Ser Ala Ser
1 5 10 15
Ser Gly Xaa Arg Arg Ser Arg Thr Pro Thr Arg Arg Arg Thr Ser Thr
20 25 30
Gly Thr Thr Xaa Pro Thr Arg Met Ala Ser Arg Pro Ala Thr Gln Xaa
35 40 45
Trp Thr Ile Thr Ser Cys Arg Thr Ser Arg Val Thr Thr Pro Pro Ser
50 55 60
Gly Thr Arg Thr Ala Ser Val Thr Pro Ser Xaa Ser Pro Arg Ala Pro
65 70 75 80
Gln Gly Arg Arg Arg Cys Pro Pro Thr His Thr Gln Gly Val Glu Glu
85 90 95
Ala Ser

<210> 63

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<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
      possible ORF of human Delta contigs

<220>
<221> VARIANT
<222> 16, 17, 22, 26, 30
<223> Xaa = Any Amino Acid

<400> 63
Lys Lys Lys Ala Gly Leu Arg Ala Cys Ser Thr Phe Lys Arg Gln Xaa
  1           5          10          15
Xaa Tyr Lys Ser Val Xaa Val Ile Ser Xaa Gly Gly Arg Xaa Thr Ala
  20          25          30
Ser

<210> 64
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Deduced amino acid sequence using the three
      possible ORF of human Delta contigs

<220>
<221> VARIANT
<222> 2, 6, 8, 10, 13, 14, 19
<223> Xaa = Any Amino Acid

<400> 64
Glu Xaa Glu Val Val Xaa Trp Xaa Leu Xaa Leu Glu Xaa Xaa Pro Arg
  1           5          10          15
Ile Pro Xaa Ser Lys Phe
  20

<210> 65
<211> 192
<212> PRT
<213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid
      sequence

<400> 65
Gly Phe Thr Trp Pro Gly Thr Phe Ser Leu Ile Ile Glu Ala Leu His
  1           5          10          15
Thr Asp Ser Pro Asp Asp Leu Ala Thr Glu Asn Pro Glu Arg Leu Ile
  20          25          30
Ser Arg Leu Ala Thr Gln Arg His Leu Thr Val Gly Glu Glu Trp Ser
  35          40          45
Gln Asp Leu His Ser Ser Gly Arg Thr Asp Leu Lys Tyr Ser Tyr Arg
  50          55          60

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Phe Val Cys Asp Glu His Tyr Tyr Gly Glu Gly Cys Ser Val Phe Cys
65 70 75 80
Arg Pro Arg Asp Asp Ala Phe Gly His Phe Thr Cys Gly Glu Arg Gly
85 90 95
Glu Lys Val Cys Asn Pro Gly Trp Lys Gly Pro Tyr Cys Thr Glu Pro
100 105 110
Ile Cys Leu Pro Gly Cys Asp Glu Gln His Gly Phe Cys Asp Lys Pro
115 120 125
Gly Glu Cys Lys Cys Arg Val Gly Trp Gln Gly Arg Tyr Cys Asp Glu
130 135 140
Cys Ile Arg Tyr Pro Gly Cys Leu His Gly Thr Cys Gln Gln Pro Trp
145 150 155 160
Gln Cys Asn Cys Gln Glu Gly Trp Gly Leu Phe Cys Asn Gln Asp
165 170 175
Leu Asn Tyr Cys Thr His His Lys Pro Cys Lys Asn Gly Ala Thr Cys
180 185 190

<210> 66
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 66
Thr Asn Thr Gly Gln Gly
1 5

<210> 67
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 67
Lys Asn Gly Gly Ser Leu Thr Asp Leu
1 5

<210> 68
<211> 157
<212> PRT
<213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 68
Glu Asn Ser Tyr Ser Cys Thr Cys Pro Pro Gly Phe Tyr Gly Lys Ile
1 5 10 15
Cys Glu Leu Ser Ala Met Thr Cys Ala Asp Gly Pro Cys Phe Asn Gly
20 25 30
Gly Arg Cys Ser Asp Ser Pro Asp Gly Gly Tyr Ser Cys Arg Cys Pro

35	40	45
Val Gly Tyr Ser Gly Phe Asn Cys Glu Lys Lys Ile Asp Tyr Cys Ser		
50	55	60
Ser Ser Pro Cys Ser Asn Gly Ala Lys Cys Val Asp Leu Gly Asp Ala		
65	70	75
Tyr Leu Cys Arg Cys Gln Ala Gly Phe Ser Gly Arg His Cys Asp Asp		80
85	90	95
Asn Val Asp Asp Cys Ala Ser Ser Pro Cys Ala Asn Gly Gly Thr Cys		
100	105	110
Arg Asp Gly Val Asn Asp Phe Ser Cys Thr Cys Pro Pro Gly Tyr Thr		
115	120	125
Gly Arg Asn Cys Ser Ala Pro Ala Ser Arg Cys Glu His Ala Pro Cys		
130	135	140
His Asn Gly Ala Thr Cys His Glu Arg Gly His Arg Tyr		
145	150	155

<210> 69

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 69

Cys Glu Cys Ala Arg Ser Tyr Gly Gly Pro Asn Cys		
1	5	10

<210> 70

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 70

Phe Leu Leu Pro Glu		
1	5	

<210> 71

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 71

Pro Pro Gly Pro		
1		

<210> 72

<211> 25

<212> PRT
<213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 72
Leu Leu Leu Gly Cys Ala Ala Val Val Val Cys Val Arg Leu Arg Leu
1 5 10 15
Gln Lys His Arg Pro Pro Ala Asp Pro
20 25

<210> 73
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 73
Arg Gly Glu Thr Glu Thr Met Asn Asn Leu
1 5 10

<210> 74
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 74
Asn Cys Gln Arg Glu Lys Asp Ile Ser Val Ser Ile Ile Gly
1 5 10

<210> 75
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 75
Thr Gln Ile Lys Asn Thr Asn Lys Lys Ala Asp Phe His Gly Asp His
1 5 10 15

<210> 76
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 76
Ala Asp Lys Asn Gly Phe Lys Ala Arg Tyr Pro
1 5 10

<210> 77
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 77
Val Asp Tyr Asn Leu Val Gln Asp Leu Lys Gly Asp Asp Thr Ala Val
1 5 10 15
Arg Asp Ala His Ser Lys Arg Asp Thr Lys
20 25

<210> 78
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 78
Gln Pro Gin Gly Ser Ser Gly Glu Glu Lys Gly Thr Pro
1 5 10

<210> 79
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 79
Pro Thr Leu Arg
1

<210> 80
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid sequence

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<400> 80
Arg Lys Arg Pro
 1

<210> 81
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Degenerated oligo as primer

<220>
<221> VARIANT
<222> 6, 12, 18, 21
<223> n = I (Inosine)

<400> 81
ttcggnntya cntggccnngg nac          23

<210> 82
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Degenerated oligo as primer

<220>
<221> VARIANT
<222> 3, 9, 12, 15
<223> n = I (Inosine)

<400> 82
tcnatgcang tnccnccrtt          20

<210> 83
<211> 8
<212> PRT
<213> Drosophila

<400> 83
Phe Gly Phe Thr Trp Pro Gly Thr
 1           5

<210> 84
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<213> Drosophila

<400> 84
Asn Gly Gly Thr Cys Ile Asp
 1           5

<210> 85
<211> 12
<212> PRT

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<213> Drosophila

<400> 85
Ser Ile Pro Pro Gly Ser Arg Thr Ser Leu Gly Val
1 5 10

<210> 86
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer 1 for PCR

<220>
<221> VARIANT
<222> 3, 9, 15, 18, 21
<223> n = I (Inosine)

<400> 86
ggnttcacnt ggccnggnac ntt 23

<210> 87
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer 2 for PCR

<220>
<221> VARIANT
<222> 3, 6, 18
<223> n = I (Inosine)

<400> 87
gttccnccrt tyttrcangg rtt 23

<210> 88
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> EGF-like repeats encoded by SEQ ID NO. 87

<400> 88
Asn Pro Cys Lys Asn Gly Gly Thr
1 5

<210> 89
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> degenerated oligo primer

<220>

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<221> VARIANT
<222> 3, 15, 18
<223> n = I (Inosine)

<400> 89
acnatgaaya ayctngcnaa ytg

<210> 90
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
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<400> 90
Thr Met Asn Asn Leu Ala Asn Cys
1 5

<210> 91
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> degenerated oligo primer

<220>
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<222> 6, 9, 21
<223> n = I (Inosine)

<400> 91
acrtnacng aytgrtaytt ngt

<210> 92
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> amino acid sequence encoded by SEQ ID NO. 91

<400> 92
Thr Lys Tyr Gln Ser Val Tyr Val
1 5

<210> 93
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> degenerated oligo

<220>
<221> VARIANT
<222> 6
<223> n = I (Inosine)
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<400> 93
gcdatnacrc aytcrtytt ytc

<210> 94
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
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<400> 94
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1 5

<210> 95
<211> 129
<212> PRT
<213> Gallus gallus

<220>
<223> chicken C-Delta-1

<400> 95
Thr Met Asn Asn Leu Ala Asn Cys Gln Arg Glu Lys Asp Ile Ser Ile
1 5 10 15
Ser Val Ile Gly Ala Thr Gln Ile Lys Asn Thr Asn Lys Lys Val Asp
20 25 30
Phe His Ser Asp Asn Ser Asp Lys Asn Gly Tyr Lys Val Arg Tyr Pro
35 40 45
Ser Val Asp Tyr Asn Leu Val His Glu Leu Lys Asn Glu Asp Ser Val
50 55 60
Lys Glu Glu His Gly Lys Cys Glu Ala Lys Cys Glu Thr Tyr Asp Ser
65 70 75 80
Glu Ala Glu Glu Lys Ser Ala Val Gln Leu Lys Ser Ser Asp Thr Ser
85 90 95
Glu Arg Lys Arg Pro Asp Ser Val Tyr Ser Thr Ser Lys Asp Thr Lys
100 105 110
Tyr Gln Ser Val Tyr Val Ile Ser Glu Glu Lys Asp Glu Cys Ile Ile
115 120 125
Ala

23